

COVID-19 and Cardiac Arrhythmias – A Short Survey

1. What is your primary occupation?
 - a. Physician
 - b. PA
 - c. NP
 - d. RN
 - e. EP technician
 - f. Other: _____
2. What is your practice setting?
 - a. Academic practice
 - b. Private practice
 - c. Hospital based practice
 - d. Outpatient clinic
 - e. Pediatric EP
 - f. Other: _____
3. What is your practice location?
 - a. Country -----
 - b. State/Province -----
4. What is the total number of COVID-19 positive patients in your hospital (approximately)? **(STOP SURVEY HERE IF ANSWER IS 0)**
5. How many documented COVID-19 positive patients have you/your EP service seen?
6. How many COVID-19 patients had a sustained supraventricular or ventricular arrhythmia?
7. How many COVID-19 patients had a bradyarrhythmia requiring intervention?
8. What tachyarrhythmic manifestations of COVID-19 have you seen (Please check all that apply)
 - a. Atrial Fibrillation
 - b. Atrial flutter
 - c. Atrial tachycardia, sustained
 - d. Paroxysmal SVT
 - e. Frequent PVCs
 - a. monomorphic
 - b. multimorphic
 - f. Non-sustained VT
 - g. Sustained monomorphic VT
 - h. Polymorphic VT/torsade de pointes

- i. Cardiac arrest (If yes, VT/VF or Pulseless electrical activity?)
 - j. I have not seen any yet
- 9. What bradyarrhythmic manifestations related to COVID-19 have you seen (please check all that apply)
 - a. Severe sinus bradycardia
 - b. AV block
 - a. first degree
 - b. Mobitz 1
 - c. Mobitz 2
 - d. CHB
 - c. Left bundle branch block
 - d. Right bundle branch block
 - e. Intraventricular conduction delay
 - f. I have not seen any yet
- 10. Have you been using anticoagulation in all COVID-19 patients who did not have an indication otherwise?
 - a. Yes
 - b. No
 - c. If yes
 - a. Warfarin
 - b. NOAC
 - c. Heparin/enoxaparin?
- 11. Approximately, what % of your COVID-19 patients were on ACE-inhibitors or ARBs at time of diagnosis?
- 12. Approximately, what % of your COVID-19 patients have severe LV dysfunction ($\leq 35\%$)?
- 13. Approximately, what % of patients needed hemodynamic support such as use of balloon pump, Impella or IABP?
- 14. Approximately, what % of your COVID-19 patients have had signs and symptoms consistent with Myocarditis?
- 15. Have you seen pericarditis and/or pericardial effusion in your COVID patients?
 - a. None
 - b. Pericarditis
 - c. Pericardial effusion
 - a. Small
 - b. Moderate
 - c. Large
 - d. Both
- 16. How many COVID + STEMI calls have you had?

- a. None
 - b. ---- (Enter #)
17. Approximately, what % of your COVID-19 patients have elevated troponins (troponin T or troponin I)?
18. Among the patients with elevated troponins, how many patients underwent invasive coronary testing?
- a. None
 - b. -----(Enter #)
 - Obstructive disease Yes/No
 - Normal/nonobstructive disease Yes/No
19. What % of your COVID-19 patients are on HCQ/Chloroquine?
20. Are you using a QTc monitoring protocol for HCQ/Chloroquine patients? Yes/No
21. Are you using magnesium supplementation in all patients on HCQ/chloroquine? Yes/No
22. How many (or what %) patients are on HCQ/Chloroquine + azithromycin?
- a. Have you seen QTc prolongation requiring discontinuation of HCQ/chloroquine + azithromycin? (Yes / No / n/a)
 - b. Have you seen Torsade de pointes from HCQ/Chloroquine + azithromycin? (Yes/No/ n/a)
23. What % of COVID-19 pts have had QTc prolongation (>500 msec or >550 msec with bundle branch block?)
24. Are you using prophylactic amiodarone in these patients? Yes/No
25. What antiarrhythmic agents are you using for ventricular arrhythmia management?
- a. Not using any antiarrhythmic agents
 - b. Amiodarone
 - c. Sotalol
 - d. Dofetilide
 - e. Lidocaine/Mexiletine
 - f. Other (please free text)